

10643015

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:22:31 ON 01 MAR 2005

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:22:46 ON 01 MAR 2005

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STRUCTURE FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

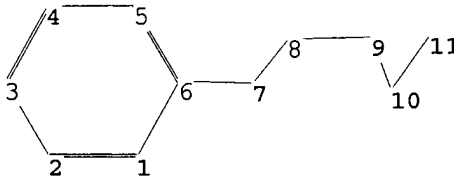
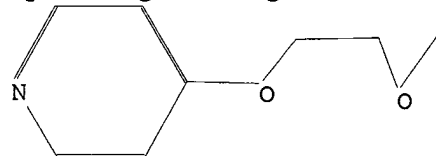
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\10643015.str



chain nodes :

7 8 9 10 11

ring nodes :

1 2 3 4 5 6

chain bonds :

6-7 7-8 8-9 9-10 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

6-7 7-8 9-10 10-11

exact bonds :

8-9

10643015

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS

L1 STRUCTURE UPLOADED

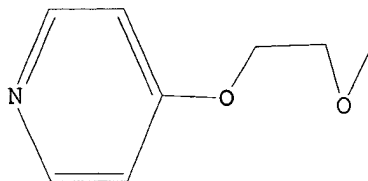
=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sam l1

SAMPLE SEARCH INITIATED 14:23:07 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 776 TO ITERATE

100.0% PROCESSED 776 ITERATIONS 39 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 13849 TO 17191  
PROJECTED ANSWERS: 406 TO 1154

L3 39 SEA SSS SAM L1

=> s full l1

FULL SEARCH INITIATED 14:23:11 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 15169 TO ITERATE

100.0% PROCESSED 15169 ITERATIONS 703 ANSWERS  
SEARCH TIME: 00.00.01

L4 703 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 14:23:25 ON 01 MAR 2005  
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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10  
FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l4 and (nanopartic? or (nano(A)partic?) or (quantum(A)dot?))
      271 L4
      42027 NANOPARTIC?
      28881 NANO
      181 NANOS
      29059 NANO
            (NANO OR NANOS)
      1823939 PARTIC?
      2141 NANO (A) PARTIC?
      382362 QUANTUM
      102 QUANTUMS
      11297 QUANTA
      14 QUANTAS
      391219 QUANTUM
            (QUANTUM OR QUANTUMS OR QUANTA OR QUANTAS)
      48446 DOT?
      18755 QUANTUM (A) DOT?
L5      4 L4 AND (NANOPARTIC? OR (NANO (A) PARTIC?) OR (QUANTUM (A) DOT?))

=> d l5 abs ibib hitstr 1
```

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AB **Nanoparticulate** composites and dispersion thereof using novel polymeric ligand compds., in certain embodiments in conjunction with pyridinyl moieties coupling the **nanoparticulate** and ligand are provided. It is an object of the present invention to provide a wide range of particulate-ligand compns. designed for compatibility with a given solvent system and/or methods for their production, thereby overcoming various deficiencies and shortcomings of the prior art. Thus, coupling of 4-hydroxypyridine with hexaethylene glycol gave a ligand which complexed with trioctylphosphine oxide-covered CdSe **nanoparticles**.

ACCESSION NUMBER: 2004:451664 CAPLUS  
DOCUMENT NUMBER: 141:24754  
TITLE: Pyridine and related ligand compounds, functionalized **nanoparticulate** composites and methods of preparation  
INVENTOR(S): Emrick, Todd S.; Skaff, Habib  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 12 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English

10643015

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004106781	A1	20040603	US 2003-643015	20030818
WO 2004065362	A2	20040805	WO 2003-US25710	20030818
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

US 2002-404105P P 20020816

IT 697766-18-0P 697766-20-4P

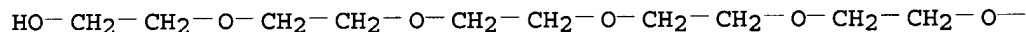
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(ligand; pyridine and related ligand compds., functionalized  
**nanoparticulate** composites and methods of preparation)

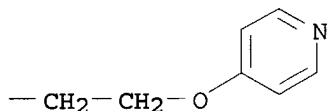
RN 697766-18-0 CAPLUS

CN 3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(4-pyridinyloxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



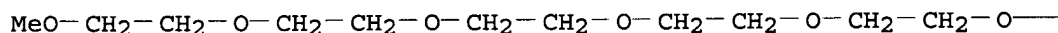
PAGE 1-B

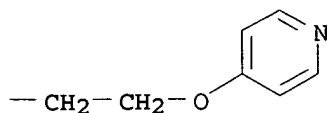


RN 697766-20-4 CAPLUS

CN Pyridine, 4-(3,6,9,12,15,18-hexaoxanonadec-1-yloxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



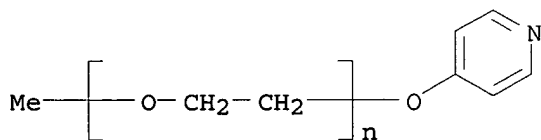


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=> d 15 abs ibib hitstr 2
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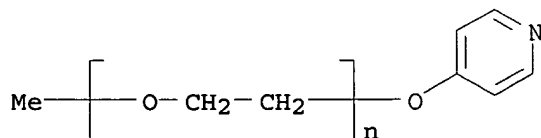
L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AB Amphiphilic Cd selenide (CdSe) **nanoparticles** were prepared by surface functionalization with novel ligands, composed of pyridine moieties substituted in the 4-position with polyethylene glycol (PEG) chains.

ACCESSION NUMBER: 2003:22276 CAPLUS  
DOCUMENT NUMBER: 138:344463  
TITLE: The use of 4-substituted pyridines to afford  
amphiphilic, pegylated cadmium selenide  
**nanoparticles**  
AUTHOR(S): Skaff, Habib; Emrick, Todd  
CORPORATE SOURCE: Department of Polymer Science and Engineering,  
University of Massachusetts, Amherst, MA, 01003, USA  
SOURCE: Chemical Communications (Cambridge, United Kingdom)  
(2003), (1), 52-53  
CODEN: CHCOFS; ISSN: 1359-7345  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English

IT 515113-59-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(synthesis and reaction of)  
RN 515113-59-4 CAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -(4-pyridinyloxy)- (9CI)  
(CA INDEX NAME)



IT 515113-59-4DP, reaction products with cadmium selenide  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(use of para-substituted pyridines to prepare amphiphilic, pegylated  
cadmium selenide **nanoparticles**)  
RN 515113-59-4 CAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -(4-pyridinyloxy)- (9CI)  
(CA INDEX NAME)



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REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 15 abs ibib hitstr 3

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AB Au **nanoparticle** assemblies were constructed by exploiting the complexation interactions between divalent metal ions and pyridine moieties. The thickness (layers) of the particle thin films was readily controlled by the repetition of the alternate dipping cycles, as monitored by quartz crystal microbalance (QCM). Electrochem. studies of these surface-immobilized **nanoparticle** layers revealed rectified quantized charging characters in aqueous solns. in the presence of hydrophobic anions. The effects of the nature of the electrolyte ions were studied in the context of their hydrophobicity and interactions with the surface-bound particle mols. The onset voltammetric potentials, as well as the effective mol. capacitance of the **nanoparticles**, were sensitive to the solution comps. The behaviors were quite similar to those with the **nanoparticle** assemblies fabricated by dithiol linkages. The present study provided addnl. exptl. parameters that could be used for the manipulation of nanoscale electron transfer.

ACCESSION NUMBER: 2002:80945 CAPLUS

DOCUMENT NUMBER: 136:285747

TITLE: Gold **Nanoparticle** Assemblies by Metal Ion-Pyridine Complexation and Their Rectified Quantized Charging in Aqueous Solutions

AUTHOR(S): Chen, Shaowei; Pei, Renjun; Zhao, Tongfeng; Dyer, Daniel J.

CORPORATE SOURCE: Department of Chemistry, Southern Illinois University, Carbondale, IL, 62901-4409, USA

SOURCE: Journal of Physical Chemistry B (2002), 106(8), 1903-1908

CODEN: JPCBFK; ISSN: 1089-5647

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 405934-32-9

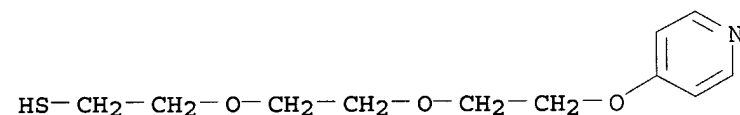
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(gold **nanoparticle** assemblies by metal ion-pyridine

complexation and rectified quantized charging in aqueous solns.)

RN 405934-32-9 CAPLUS

CN Ethanethiol, 2-[2-[2-(4-pyridinyloxy)ethoxy]ethoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 15 abs ibib hitstr 4

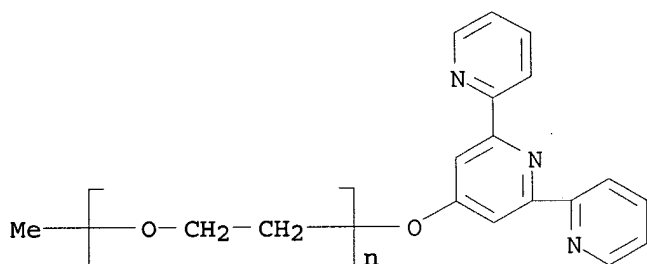
L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AB **Nanoparticles** of Pd and CdS can be successfully synthesized using methoxy terminated polyethylene glycol functionalized terpyridines.

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Due to the polyethylene glycol the produced **nanoparticles** are soluble in water. In the formation of the Pd **nanoparticles** the metal surface terpyridine interaction is stabilizing the particles.

ACCESSION NUMBER: 2001:585299 CAPLUS  
DOCUMENT NUMBER: 135:289177  
TITLE: Towards functionalized **nanoparticles**  
AUTHOR(S): Billancia, Gianmarco; Wouters, Daan; Precup, Andrei A.; Schubert, Ulrich S.  
CORPORATE SOURCE: Laboratory of Macromolecular and Organic Chemistry, Eindhoven Univ. of Tech., Eindhoven, 5600 MB, Neth.  
SOURCE: Polymeric Materials Science and Engineering (2001), 85, 508-509  
CODEN: PMSEGD; ISSN: 0743-0515  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 365410-71-5P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (in preparation of polyoxyethylene containing functionalized **nanoparticles**)  
RN 365410-71-5 CAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	32.36	193.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.92	-2.92

FILE 'REGISTRY' ENTERED AT 14:27:20 ON 01 MAR 2005  
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STRUCTURE FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7  
DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005



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Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 515113-59-4/RN

L6 1 515113-59-4/RN

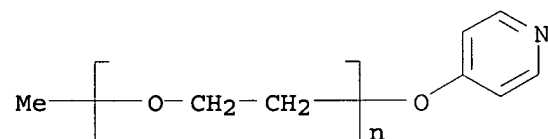
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L6 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 515113-59-4 REGISTRY  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -(4-pyridinyloxy)- (9CI)  
(CA INDEX NAME)  
MF (C2 H4 O)<sub>n</sub> C6 H7 N O  
CI PMS  
PCT Polyether  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)  
RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

10643015

FULL ESTIMATED COST	3.13	197.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.92

FILE 'REGISTRY' ENTERED AT 14:29:23 ON 01 MAR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7  
DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 697766-18-0/RN

L7 1 697766-18-0/RN

=> SET NOTICE 1 DISPLAY

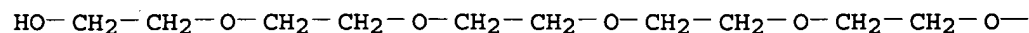
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

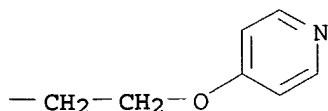
=> D L7 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 697766-18-0 REGISTRY  
CN 3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(4-pyridinyloxy)- (9CI) (CA INDEX  
NAME)  
FS 3D CONCORD  
MF C17 H29 N O7  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); USES (Uses)

PAGE 1-A





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	199.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.92

FILE 'REGISTRY' ENTERED AT 14:29:48 ON 01 MAR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

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information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 697766-20-4/RN

L8 1 697766-20-4/RN

=> SET NOTICE 1 DISPLAY

10643015

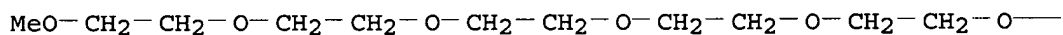
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L8 SQIDE 1-

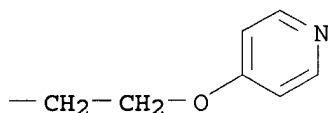
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT. 2005 ACS on STN  
RN 697766-20-4 REGISTRY  
CN Pyridine, 4-(3,6,9,12,15,18-hexaoxonadec-1-yloxy) - (9CI) (CA INDEX  
NAME)  
FS 3D CONCORD  
MF C18 H31 N O7  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); USES (Uses)

PAGE 1-A



PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.27	201.57
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.92

FILE 'REGISTRY' ENTERED AT 14:30:07 ON 01 MAR 2005

10643015

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STRUCTURE FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7  
DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 365410-71-5/RN

L9 1 365410-71-5/RN

=> SET NOTICE 1 DISPLAY

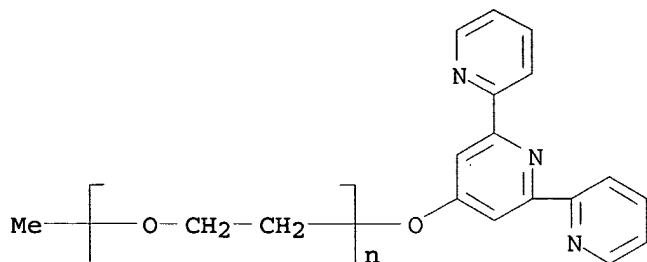
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L9 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 365410-71-5 REGISTRY  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-  
4'-yloxy)- (9CI) (CA INDEX NAME)  
DR 462622-65-7  
MF (C2 H4 O)<sub>n</sub> C16 H13 N3 O  
CI PMS  
PCT Polyether  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT  
(Reactant or reagent)  
RLD.NP Roles for non-specific derivatives from non-patents: PREP  
(Preparation); PRP (Properties); RACT (Reactant or reagent)

10643015



11 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> file capluls

'CAPLULS' IS NOT A VALID FILE NAME  
SESSION CONTINUES IN FILE 'REGISTRY'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.27	203.84

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-2.92

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 14:30:27 ON 01 MAR 2005

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10

FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

10643015

=> s 19

L10 11 L9

=> d l10 abs ibib hitstr 1

L10 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Metallo-supramol. block copolymers are block copolymers in which the constituting blocks are held together via metal-ligand supramol. interactions. An inert bis terpyridine ruthenium complex serves as the supramol. linkers in our case. The approach towards these materials relies on simply mixing these two polymers together under suitable conditions. The same blocks can be used to construct different block copolymers and a combinatorial approach is therefore highly suited in constructing block copolymer libraries that can be characterized and tested. We will show the first results of a 4x4 library of polystyrene-poly(ethylene oxide) metallo-supramol. block copolymers. The emphasis will be on the synthesis, purification, characterization and material properties of the components of the library, especially in comparison with

each

other individually. The first morphol. studies will be dealt with as well.

ACCESSION NUMBER: 2004:231111 CAPLUS

DOCUMENT NUMBER: 141:38932

TITLE: Block copolymer libraries using supramolecular strategies

AUTHOR(S): Lohmeijer, Bas G. G.; Wouters, Daan; Yin, Zhihui; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry and Nanoscience and Dutch Polymer Institute (DPI), Eindhoven University of Technology, Eindhoven, 5600 MB, Neth. Polymer Materials Science and Engineering (2004), 90, 723-724

SOURCE: CODEN: PMSDGG; ISSN: 0743-0515

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal; (computer optical disk)

LANGUAGE: English

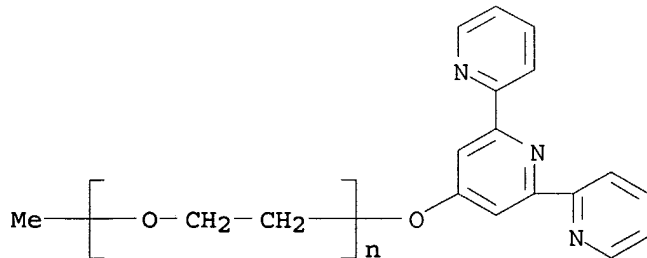
IT 365410-71-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(polyoxyethylene macromonomer; preparation of ethylene oxide-styrene block copolymer libraries using tripyridine termination and coordination with ruthenium)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10643015

=> d 110 abs ibib hitstr 2

L10 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Here we demonstrate the synthesis of telechelics with different spacer units and different nos. of metal-complexing units, like  $\alpha$ -methoxy- $\omega$ -(2,2':6',2''-terpyrid-4'-yl)-poly(ethylene oxide) 78 (1), bis(2,2':6',2''-terpyrid-4'-yl)di(ethylene glycol) (2), bis(2,2':6',2''-terpyrid-4'-yl)-poly(ethylene oxide) 180 (3) and tris[(2,2':6',2''-terpyrid-4'-yl)-oligo(oxyethylene)3.33]glycerol (4) utilizing 4-chloro-2,2':6',2''-terpyridine. The complexation behavior of a variety of metal-salts towards the telechelics was studied and different supramol. architectures were investigated, such as sym. polymeric complexes and linear coordination polymers. Furthermore, attempts have been undertaken to prepare metallo-supramol. cross-linked systems.

ACCESSION NUMBER: 2003:857540 CAPLUS

DOCUMENT NUMBER: 140:94435

TITLE: Engineering with metallo-supramolecular polymers:  
Linear coordination polymers and networks

AUTHOR(S): Schmatloch, S.; Schubert, U. S.

CORPORATE SOURCE: Eindhoven University of Technology and Dutch Polymer  
Institute, Eindhoven, 5600 MB, Neth.

SOURCE: Macromolecular Symposia (2003), 199(Polycondensation  
2002), 483-497

CODEN: MSYMEC; ISSN: 1022-1360

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

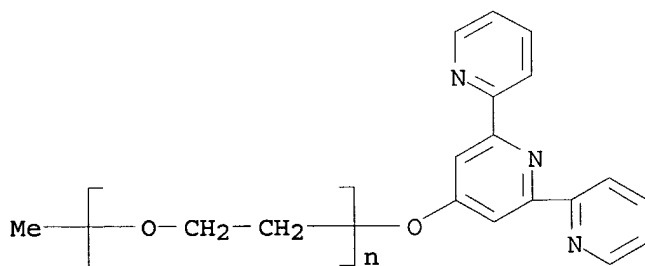
IT 365410-71-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation of terpyridyl-terminated polyoxyethylenes and their  
complexation with iron and supramol. architecture of complexes)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-  
4'-yloxy)- (9CI) (CA INDEX NAME)



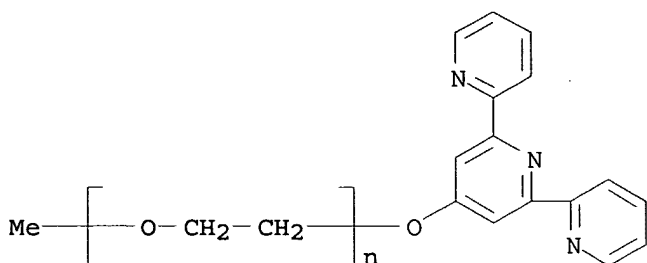
IT 365410-71-5DP, iron complexes

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of terpyridyl-terminated polyoxyethylenes and their  
complexation with iron and supramol. architecture of complexes and  
attempted crosslinking of complexes)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-  
4'-yloxy)- (9CI) (CA INDEX NAME)





REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 3 .

L10 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB The characterization of metal-containing supramol. polymers by gel permeation chromatog. (GPC) or matrix-assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF MS) is complicated because of the interaction of the charged materials with the GPC column material in the first case and fragmentation due to the applied laser energy in the latter case. Recent advances made for the characterization of supramol. polymers based on terpyridine metal complexes utilizing GPC and MALDI-TOF MS are reported. In particular for GPC anal., the choice of solvent and additive was crucial for a successful characterization. Furthermore, MALDI-TOF MS spectra of these compds. are not straightforward to interpret. Both aspects are discussed in detail with the result of a better understanding and improved anal. possibilities of the mentioned supramol. polymers. Ruthenium complex of terpyridine terminated polystyrene and poly(ethylene oxide) are examined

ACCESSION NUMBER: 2003:801305 CAPLUS

DOCUMENT NUMBER: 140:17150

TITLE: Characterization of defined metal-containing supramolecular block copolymers

AUTHOR(S): Meier, Michael A. R.; Lohmeijer, Bas G. G.; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology and Dutch Polymer Institute (DPI), Eindhoven, 5600 MB, Neth.

SOURCE: Macromolecular Rapid Communications (2003), 24(14), 852-857

CODEN: MRCOE3; ISSN: 1022-1336

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 365410-71-5

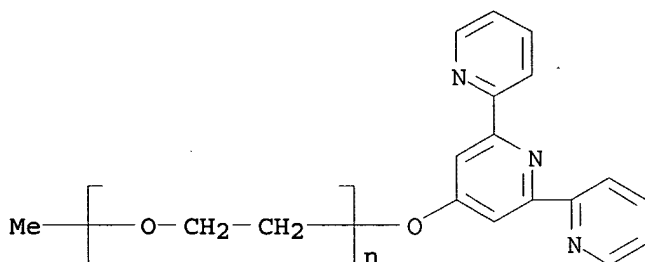
RL: PRP (Properties)

(chain length characterization of ruthenium-containing supramol. polystyrene and poly(ethylene oxide) block copolymers by GPC and MALDI-TOF MS)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)

10643015



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 4

L10 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Two different metallo-supramol. amphiphilic block copolymers have been synthesized, using a hydrophilic poly(ethylene oxide) block connected through a bis-(2,2':6'2''-terpyridine-ruthenium) complex either to a hydrophobic polystyrene or to a poly(ethylene-co-butylene) block. These copolymers were used to prepare aqueous micelles. The morphol.

characterization

of the metallo-supramol. micelles was performed by dynamic light scattering and transmission electron microscopy. Besides individual micelles, larger structures were also observed by these two independent techniques. The larger structures were the result of aggregation of individual micelles. In addition, the influence of the ionic strength of the medium was investigated. Although the metallo-supramol. copolymers do not contain charged blocks, the corresponding micelles behaved as polyelectrolyte-like micelles. This behavior was attributed to the presence of NaCl ions, strongly associated to the poly(ethylene oxide) blocks. This was evidenced by transmission electron microscopy, that revealed the presence of the salt in the metallo-supramol. micelles.

ACCESSION NUMBER: 2003:801196 CAPLUS

DOCUMENT NUMBER: 140:17197

TITLE: Synthesis and characterization of metallo-supramolecular micelles

AUTHOR(S): Gohy, Jean-Francois; Lohmeijer, Bas G. G.; Decamps, Brigitte; Leroy, Eric; Boileau, Sylvie; van den Broek, Jacomina A.; Schubert, Dieter; Haase, Winfried; Schubert, Ulrich S.

CORPORATE SOURCE: Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology and Dutch Polymer Institute, Eindhoven, 5600 MB, Neth.

SOURCE: Polymer International (2003), 52(10), 1611-1618  
CODEN: PLYIEI; ISSN: 0959-8103

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

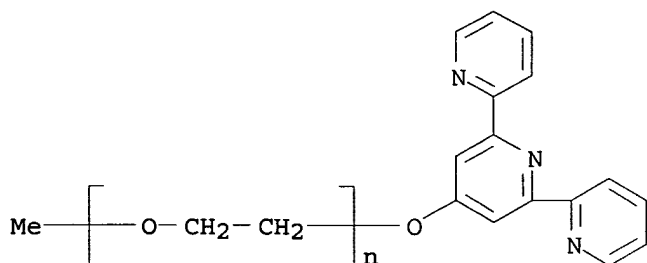
IT 365410-71-5DP, complexes with ruthenium and terpyridine-terminated polystyrene or ethylene-butylene copolymer

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(synthesis and characterization of metallo-supramol. amphiphilic block copolymer micelles)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)

10643015



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 5

L10 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Diblock copolymers of poly(styrene) and poly(ethylene oxide) were prepared utilizing a bisterpyridine ruthenium complex as non-covalent interaction for the connection of the two blocks. Apart from the synthesis and characterization of four metallo-supramol. block copolymers, first studies on the thermal properties of the block copolymers have been performed. A complex crystallization behavior was observed and is described in a qual. fashion.

The influence of the metal complex on the thermal stability of the metallo-supramol. block copolymers remains a question for further investigation.

ACCESSION NUMBER: 2003:594432 CAPLUS

DOCUMENT NUMBER: 139:351026

TITLE: Synthesis and thermal properties of diblock copolymers utilizing non-covalent interactions

AUTHOR(S): Lohmeijer, Bas G. G.; Schlaad, Helmut; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology and Dutch Polymer Institute (DPI), Eindhoven, 5600 MB, Neth.

SOURCE: Macromolecular Symposia (2003), 196 (Metal- and Metalloid-Containing Macromolecules), 125-135  
CODEN: MSYMEC; ISSN: 1022-1360

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

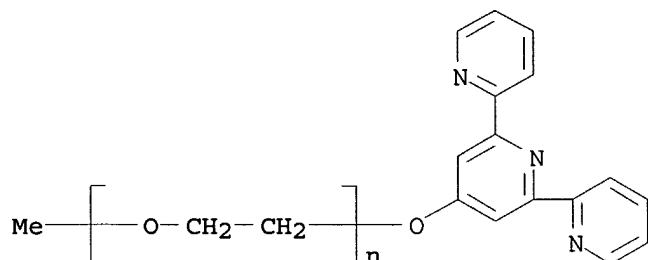
IT 365410-71-5DP, ruthenium complexes

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediates; in preparation of ethylene oxide-styrene diblock copolymers)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 6

L10 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Poly(ethylene oxide) of various mol. wts. (.hivin.Mn = 3 000, 5 200, 10 000, 16 500 g.mol<sup>-1</sup>) has been modified with terpyridine end groups as building blocks for water-soluble metallo-supramol. polymers. Metallo-supramol. A-A homopolymers have been prepared and characterized by complexing the terpyridine units of one selected poly(ethylene oxide) (.hivin.Mn = 3 000 g.mol<sup>-1</sup>) with the following transition metal ions in their 2+ oxidation state: Fe, Ru, Co, Ni, Cu, Zn, and Cd. In addition, the stability of the supramol. connection with respect to pH variations has been investigated.

ACCESSION NUMBER: 2003:500210 CAPLUS

DOCUMENT NUMBER: 139:197899

TITLE: Water-soluble building blocks for terpyridine-containing supramolecular polymers: Synthesis, complexation, and pH stability studies of poly(ethylene oxide) moieties

AUTHOR(S): Lohmeijer, Bas G. G.; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry and Nanoscience, Center for Nanomaterials (cNM), Eindhoven University of Technology and Dutch Polymer Institute, Eindhoven, 5600 MB, Neth.

SOURCE: Macromolecular Chemistry and Physics (2003), 204(8), 1072-1078

CODEN: MCHPES; ISSN: 1022-1352

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 365410-71-5P

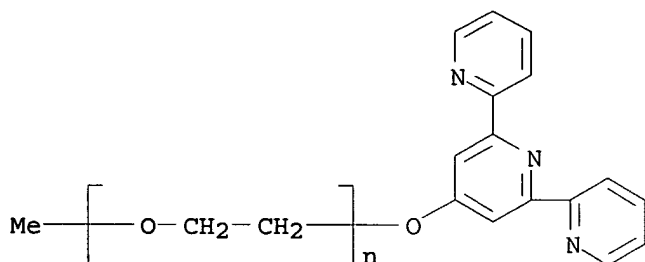
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(complexation, mol. weight, and pH stability of poly(ethylene oxide) Me ether with metals)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)

10643015



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 7

L10 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB An amphiphilic metallo-supramol. graft copolymer was prepared from terpyridine end-functionalized poly(ethylene glycol) (PEG)/RuCl<sub>3</sub> complex and terpyridine end-functionalized poly(Me methacrylate) (PMMA). Aqueous micelles of the graft copolymer were prepared and analyzed by dynamic light scattering, transmission electron, and atomic force microscopy. Polydisperse spherical micelles that are clustering into larger structures were observed. The micelles consist of a spherical PMMA core with a diameter .apprx.20 nm, surrounded by the terpyridine-Ru complexes and a PEG corona.

ACCESSION NUMBER: 2003:222628 CAPLUS

DOCUMENT NUMBER: 138:369480

TITLE: Metallo-supramolecular graft copolymers: Micelle formation

AUTHOR(S): Hofmeier, Harald; Gohy, Jean-Francois; Schubert, Ulrich S.

CORPORATE SOURCE: Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology, Eindhoven, 5600 MB, Neth.

SOURCE: Polymeric Materials Science and Engineering (2003), 88, 193-194

CODEN: PMSDGG; ISSN: 0743-0515

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal; (computer optical disk)

LANGUAGE: English

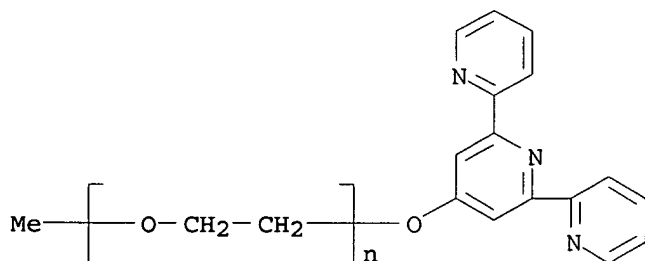
IT 365410-71-5D, complexes with ruthenium and terpyridinyloxypropyl ester-containing PMMA

RL: PRP (Properties)

(micelle formation of terpyridinyloxypropyl ester-containing PMMA complexes with ruthenium and terpyridinyl-terminated polyoxyethylene)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



10643015

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 8

L10 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Herein we used terpyridine-terminated polymers to engineer supermol. AB, (AB)<sub>n</sub>, and ABA block copolymers. We have demonstrated that a supermol. approach towards block copolymers is feasible. In particular, combinations of blocks that to date were inaccessible, or accessible by established routes only with great difficulties, can be engineered utilizing the described approach.

ACCESSION NUMBER: 2002:859300 CAPLUS

DOCUMENT NUMBER: 138:137788

TITLE: Supramolecular engineering with macromolecules: an alternative concept for block copolymers

AUTHOR(S): Lohmeijer, Bas G. G.; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology, Eindhoven, 5600 MB, Neth.

SOURCE: Angewandte Chemie, International Edition (2002), 41(20), 3825-3829

CODEN: ACIEF5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

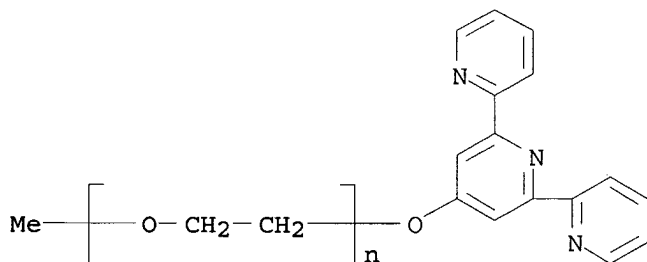
IT 365410-71-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(supramol. engineering for block copolymers)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

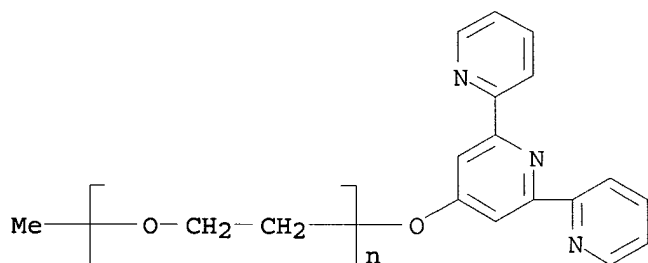
=> d l10 abs ibib hitstr 9

L10 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB A copolymer of poly(Me methacrylate) with terpyridine units in the side chains was synthesized using free-radical polymerization. The free terpyridine units were complexed with several different terpyridineruthenium mono-complexes, yielding metallosupramol. graft copolymers. The materials obtained were characterized by NMR and UV-visible spectroscopy as well as GPC. Characterization by thermal anal. revealed distinct differences between these new materials and the initial copolymer.

10643015

ACCESSION NUMBER: 2002:550701 CAPLUS  
DOCUMENT NUMBER: 137:272387  
TITLE: Metallo-supramolecular graft copolymers: a novel approach toward polymer-analogous reactions  
AUTHOR(S): Schubert, Ulrich S.; Hofmeier, Harald  
CORPORATE SOURCE: Laboratory of Macromolecular and Organic Chemistry, Center for Nanomaterials (cNM), Eindhoven University of Technology, Eindhoven, 5600 MB, Neth.  
SOURCE: Macromolecular Rapid Communications (2002), 23(9), 561-566  
CODEN: MRCOE3; ISSN: 1022-1336  
PUBLISHER: Wiley-VCH Verlag GmbH  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:272387  
IT 365410-71-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactant for preparation of ruthenium terpyridine complex grafted onto poly(Me methacrylate) copolymer)  
RN 365410-71-5 CAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 110 abs ibib hitstr 10

L10 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB Nanoparticles of Pd and CdS can be successfully synthesized using methoxy terminated polyethylene glycol functionalized terpyridines. Due to the polyethylene glycol the produced nanoparticles are soluble in water. In the formation of the Pd nanoparticles the metal surface terpyridine interaction is stabilizing the particles.

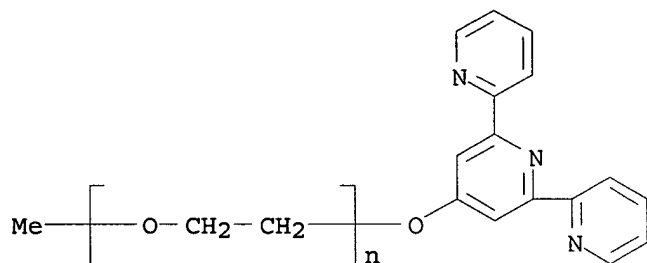
ACCESSION NUMBER: 2001:585299 CAPLUS  
DOCUMENT NUMBER: 135:289177  
TITLE: Towards functionalized nanoparticles  
AUTHOR(S): Billancia, Gianmarco; Wouters, Daan; Precup, Andrei A.; Schubert, Ulrich S.  
CORPORATE SOURCE: Laboratory of Macromolecular and Organic Chemistry, Eindhoven Univ. of Tech., Eindhoven, 5600 MB, Neth.  
SOURCE: Polymeric Materials Science and Engineering (2001), 85, 508-509  
CODEN: PMSEDG; ISSN: 0743-0515  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 365410-71-5P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

10643015

(in preparation of polyoxyethylene containing functionalized nanoparticles)

RN 365410-71-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l10 abs ibib hitstr 11

L10 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AB It was shown that terpyridine-ligands are successfully introduced at the end of hydroxy-terminated polymers. By forming a mono-complex these building blocks can easily be coupled. A supramol. AB-block-copolymer of polyethylene glycol and polystyrene were synthesized. The starting materials were both synthesized by anionic polymerization and end-capped to yield

polymers with one hydroxidyl end-group and a narrow polydispersity.

ACCESSION NUMBER: 2001:585270 CAPLUS

DOCUMENT NUMBER: 135:289172

TITLE: Synthesis of metallo-supramolecular block-copolymers

AUTHOR(S): Lohmeijer, Bas G. G.; Schubert, Ulrich S.

CORPORATE SOURCE: Laboratory of Macromolecular and Organic Chemistry, Eindhoven University of Technology, Eindhoven, 5600 MB, Neth.

SOURCE: Polymeric Materials Science and Engineering (2001), 85, 460-461

CODEN: PMSEDG; ISSN: 0743-0515

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 365410-71-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

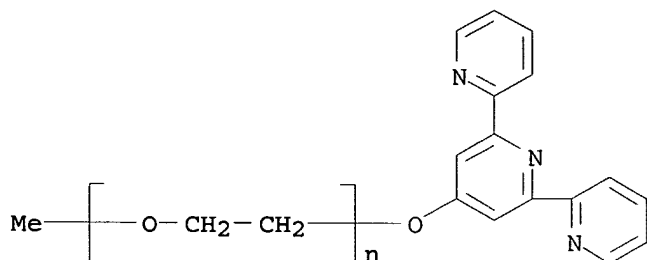
(synthesis of metallo-supramol. block-copolymers)

RN 365410-71-5 CAPLUS

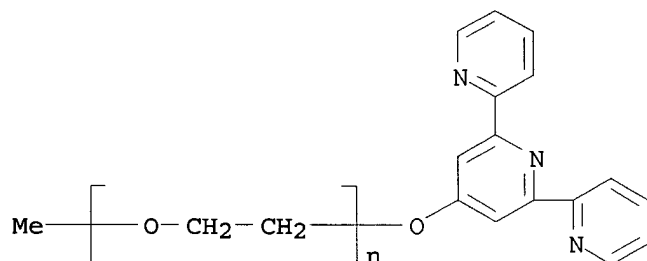
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



10643015



IT 365410-71-5DP, complexes with ruthenium and tripyridine-terminated polystyrene  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis of metallo-supramol. block-copolymers)  
RN 365410-71-5 CAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -([2,2':6',2''-terpyridin]-4'-yloxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST

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ENTRY	SESSION
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CA SUBSCRIBER PRICE

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ENTRY	SESSION
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FULL ESTIMATED COST	ENTRY	SESSION
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